

<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	10/624,964	BERNAL ET AL.	
	Examiner	Art Unit	
	Usmaan Saeed	2166	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment dated 11/13/2006.
2. ☒ The allowed claim(s) is/are 1-6, 8-18, 20-28, and 30-34 (renumbered as 1-31).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application</li> <li>6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input checked="" type="checkbox"/> Other <u>See Continuation Sheet</u>.</li> </ol> |
|--|--|

  
**MOHAMMAD ALI**  
**PRIMARY EXAMINER**

Continuation of Attachment(s) 9. Other: A copy of the attorney's fax regarding the proposed amendments with additional changes made by the examiner with applicant's approval is also attached.

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### DETAILED ACTION

1. This communication is in response to the amendment filed on 11/13/2006.

After thorough search and examination of the present application and in light of the prior art made of record, claims 1-6, 8-18, 20-28, and 30-34 (renumbered as 1-31) are allowed.

Claims 7, 19, and 29 have been cancelled.

### EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview/Fax with Attorney, David Victor, Registration No. 39,867 on January 30, 2007.

A copy of the attorney's fax regarding the proposed amendments with additional changes made by the examiner with applicant's approval is also attached.

**Please amend the claims, which were filed on 9/27/2006 with new versions as follows:**

1. (Currently Amended) A method for making data available to an application program, comprising:

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generating a cursor positioned with respect to a result table, wherein the cursor specifies a search criteria, wherein the result table includes rows from a base table that satisfy the search criteria, wherein a cursor definition statement defines the cursor to be positioned on a plurality of rows of the result table;

receiving a fetch request specifying an integer k indicating to position the cursor on a plurality of rows of the result table, wherein a statement defines the cursor to be positioned on the plurality of rows;

positioning the cursor on the plurality of rows of the result table indicated in the fetch request that satisfy the search criteria;

determining a rowset size from a rowset size definition statement defining the rowset size;

positioning the cursor on a number of rows comprising the rowset size that satisfy the search criteria and with respect to k rows from a row of the result table; and

performing the fetch request with respect to returning the plurality of rows on which the cursor is defined to be positioned in response to the fetch request.

3. (Currently Amended) The method of claim 2, wherein the fetch request is received from a client at a server, wherein returning the plurality of rows further comprises comprising:

returning, by the server, the plurality of rows at the server on which the cursor is positioned to the client that sent the fetch request, wherein the lock is placed on the plurality of rows at the server to block the plurality of rows on which the cursor is positioned.

5. (Currently Amended) The method of claim 1, wherein the statement defines the cursor to be positioned on the plurality of rows of the result table before receiving the fetch request, ~~and wherein positioning the cursor further comprises:~~

~~determining a rowset size; and~~

~~positioning the cursor on a number of rows comprising the rowset size with respect to one row of the result table having rows that satisfy the search criteria.~~

6. (Currently Amended) The method of claim 5, wherein positioning the cursor with respect to k rows from ~~on the number of rows with respect to one row of the result table~~ comprises one of:

~~positioning the cursor on a number of~~ at k rows preceding a first row of the current plurality of rows that satisfy the search criteria;

~~positioning the cursor on a number of~~ at k rows from a first row of the result table that satisfy the search criteria; and

~~positioning the cursor on a number of~~ at k rows preceding an end of the result table that satisfy the search criteria.

7. (Canceled)

8. (Currently Amended) The method of claim 7 1, wherein positioning the cursor on a the number of rows that satisfy the search criteria and is positioned with respect to k rows from the row of the result table comprises one of:

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positioning the cursor on a the number of rows that satisfy the search criteria and precede k rows preceding a first row of the current plurality of rows that satisfy the search criteria;

positioning the cursor on a the number of rows that satisfy the search criteria and follow a number of rows equal to the rowset size from a kth row from a first row of the result table;

positioning the cursor on a the number of rows that satisfy the search criteria and precedes k rows that satisfy the search criteria preceding a last row of the result table.

13. (Currently Amended) A system for making data available to an application program, comprising:

a memory;

a base table;

a result table, wherein the result table includes rows from a base table that satisfy a search criteria, wherein a cursor definition statement defines the cursor to be positioned on a plurality of rows of the result table;

means for generating a cursor positioned with respect to a result table;

means for receiving a fetch request specifying an integer k ~~indicating to position the cursor on a plurality of rows of the result table, wherein a statement defines the cursor to be positioned on the plurality of rows;~~

~~means for positioning the cursor on the plurality of rows of the result table indicated in the fetch request that satisfy the search criteria;~~

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means for determining a rowset size from a rowset size definition statement

defining the rowset size;

means for positioning the cursor on a number of rows comprising the rowset size  
that satisfy the search criteria and with respect to k rows from a row of the result table;

and

~~means for performing the fetch request with respect to~~ returning the plurality of  
rows on which the cursor is ~~defined to be positioned~~ in response to the fetch request.

15. (Currently Amended) The system of claim 14, wherein the fetch request is  
received from a client at a server, wherein returning the plurality of rows further  
comprises comprising:

means, performed by the server, for returning the plurality of rows at the server  
on which the cursor is positioned to the client that sent the fetch request, wherein the  
lock is placed on the plurality of rows at the server to block the plurality of rows on which  
the cursor is positioned.

17. (Currently Amended) The system of claim 13, wherein the statement defines the  
cursor to be positioned on the plurality of rows of the result table before receiving the  
fetch request, ~~and wherein positioning the cursor further comprises:~~

~~determining a rowset size; and~~

~~positioning the cursor on a number of rows comprising the rowset size with~~  
~~respect to one row of the result table having rows that satisfy the search criteria.~~

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18. (Currently Amended) The system of claim 17, wherein the means for positioning the cursor with respect to k rows from ~~on the number of rows with respect to~~ one row of the result table performs one of:

positioning the cursor ~~on a number of~~ at k rows preceding a first row of the current plurality of rows that satisfy the search criteria;

positioning the cursor ~~on a number of~~ at k rows from a first row of the result table that satisfy the search criteria; and

positioning the cursor ~~on a number of~~ at k rows preceding an end of the result table that satisfy the search criteria.

19. (Canceled)

20. (Currently Amended) The system of claim ~~19~~ 13, wherein the means for positioning the cursor on a the number of rows that satisfy the search criteria and is positioned with respect to k rows from the row of the result table comprises one of:

positioning the cursor on a the number of rows that satisfy the search criteria and precede k rows preceding a first row of the current plurality of rows that satisfy the search criteria;

positioning the cursor on a the number of rows that satisfy the search criteria and follow a number of rows equal to the rowset size from a kth row from a first row of the result table;

positioning the cursor on a the number of rows that satisfy the search criteria and precedes k rows that satisfy the search criteria preceding a last row of the result table.



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23. (Currently Amended) An article of manufacture embodied in a computer readable storage medium including code executed for making data available to an application program, wherein the article of manufacture causes operations to be performed, the operations comprising:

generating a cursor positioned with respect to a result table, wherein the cursor specifies a search criteria, wherein the result table includes rows from a base table that satisfy the search criteria, wherein a cursor definition statement defines the cursor to be positioned on a plurality of rows of the result table;

receiving a fetch request specifying an integer k ~~indicating to position the cursor on a plurality of rows of the result table, wherein a statement defines the cursor to be positioned on the plurality of rows;~~

~~positioning the cursor on the plurality of rows of the result table indicated in the fetch request that satisfy the search criteria;~~

determining a rowset size from a rowset size definition statement defining the rowset size;

positioning the cursor on a number of rows comprising the rowset size that satisfy the search criteria and with respect to k rows from a row of the result table having rows that satisfy the search criteria; and

~~performing the fetch request with respect to~~ returning the plurality of rows on which the cursor is ~~defined to be positioned~~ in response to the fetch request.

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25. (Currently Amended) The article of manufacture of claim 24, wherein the fetch request is received from a client at a server, and wherein returning the plurality of rows ~~the operations further comprises comprising:~~

returning, by the server, the plurality of rows at the server on which the cursor is positioned to the client that sent the fetch request, wherein the lock is placed on the plurality of rows at the server to block the plurality of rows on which the cursor is positioned.

27. (Currently Amended) The article of manufacture of claim 23, wherein the statement defines the cursor to be positioned on the plurality of rows of the result table before receiving the fetch request, ~~and wherein positioning the cursor further comprises:~~

~~determining a rowset size; and~~

~~positioning the cursor on a number of rows comprising the rowset size with respect to one row of the result table having rows that satisfy the search criteria.~~

28. (Currently Amended) The article of manufacture of claim 27, wherein positioning the cursor with respect to k rows from ~~on the number of rows with respect to one row of~~ the result table comprises one of:

positioning the cursor ~~on a number of~~ at k rows preceding a first row of the current plurality of rows that satisfy the search criteria;

positioning the cursor ~~on a number of~~ at k rows from a first row of the result table that satisfy the search criteria; and

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positioning the cursor ~~on a number of~~ at  $k$  rows preceding an end of the result table that satisfy the search criteria.

29. (Canceled)

30. (Currently Amended) The article of manufacture of claim ~~29~~ 23, wherein positioning the cursor on a the number of rows that satisfy the search criteria and is positioned with respect to  $k$  rows from the row of the result table comprises one of:

positioning the cursor on a the number of rows that satisfy the search criteria and precede  $k$  rows preceding a first row of the current plurality of rows that satisfy the search criteria;

positioning the cursor on a the number of rows that satisfy the search criteria and follow a number of rows equal to the rowset size from a  $k$ th row from a first row of the result table;

positioning the cursor on a the number of rows that satisfy the search criteria and precedes  $k$  rows that satisfy the search criteria preceding a last row of the result table.

***Reason for Allowance***

3. The prior art made of record does not teach or fairly suggest the combination of elements, as recited in independent claims 1, 13, and 23.

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More specifically, the prior art of records does not specifically suggest a combination of elements including "wherein a cursor definition statement defines the cursor to be positioned on a plurality of rows of the result table; positioning the cursor on a number of rows comprising the rowset size that satisfy the search criteria and with respect to k rows from a row of the result table; and returning the plurality of rows on which the cursor is positioned in response to the fetch request" as recited in independent claim 1.

Further prior art of record fails to teach a combination of elements including "wherein a cursor definition statement defines the cursor to be positioned on a plurality of rows of the result table; means for positioning the cursor on a number of rows comprising the rowset size that satisfy the search criteria and with respect to k rows from a row of the result table; and means for returning the plurality of rows on which the cursor is positioned in response to the fetch request" as recited in independent claim 13.

Further prior art of record fails to teach a combination of elements including "wherein a cursor definition statement defines the cursor to be positioned on a plurality of rows of the result table; positioning the cursor on a number of rows comprising the rowset size that satisfy the search criteria and with respect to k rows from a row of the result table having rows that satisfy the search criteria; and returning the plurality of rows on which the cursor is positioned in response to the fetch request" as recited in independent claim 23.

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These features together with other limitations of the independent claims are novel and non-obvious over the prior art of record. The dependent claims 2-6, 8-12, 14-18, 20-22, 24-28, and 30-34 being definite, enabled by the specification, and further limiting to the independent claims, are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### ***Contact Information***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Usmaan Saeed whose telephone number is (571)272-4046. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571)272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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February 01, 2007

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